Grade 5 Mathematics Task Specific Rubric

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Problem Solving and Reasoning	-Shows a thorough understanding of the task and fraction concepts connected within the task. -Shows a thorough understanding of the relationship of each vegetable to the whole garden.(determining a common denominator and simplification of fractions) -Adapts and extends one or more efficient strategies that lead to a correct solution -Uses correct reasoning and justification and achieves a correct and reasonable answer with a precise and thorough explanation and justification for the solution/outcome. Uses a systematic approach to solve the task, solving the vegetable fractional relations, the combinations of ½ or other fractional combinations of ½ with simplifications and relationships to other mathematical representations.	-Shows an understanding of the task and fraction concepts. -Shows an understanding of the relationship of each vegetable to the whole garden.(determining a common denominator) -Develops and applies an appropriate strategy to solve the task that leads to a correct solution. -Uses correct reasoning and justification and achieves a correct and reasonable answer(possibly with minor mistakes) -Uses a systematic approach to solve the task, solving the vegetable fractional relations, the combinations of ½ or other fractional combinations of ½.		-Provides no solution related to the task. -Shows no attempt to determine the fractional value of each vegetable in the garden. -Chooses a strategy to determine and compare vegetables that does not does not match the task and does not lead to a solution -Provides no correct reasoning or justification to the fractional relations, the vegetable combinations to ½ or other fractional combinations.
Representations and Connections	-Uses abstract and symbolic representation of the fraction concepts related to the task to record information that shows a solution to the task. -Explicit connections between the size of the whole garden and each vegetable fraction are used to solve the task. Making a strong connection using representations to show combining, simplifying, and relating to other mathematical concepts and patterns.	-Uses appropriate and accurate representation of the fraction related to the whole garden and to the task. -Some connections between the size of the whole garden and each vegetable fraction are used to solve the task. -Makes an accurate connection between the fractional parts(the veggies) and the whole garden to other mathematical concepts.		-Makes no attempt to use the garden as a model to support their thinking of fraction concepts and each vegetable's fractional part to the whole garden. -Makes no connections between fractions concepts
Communication		-Communicates process of thinking in a sequential, coherent way using fraction models, mathematical language, or symbols	-Provides a partial communication of process or thinking using a model(s) of fraction, mathematical language, or symbols	-Shows little or no communication of process or thinking. Pictures, words, or symbols, if present, are mathematically inaccurate.